Manufacturer: Power Electronics

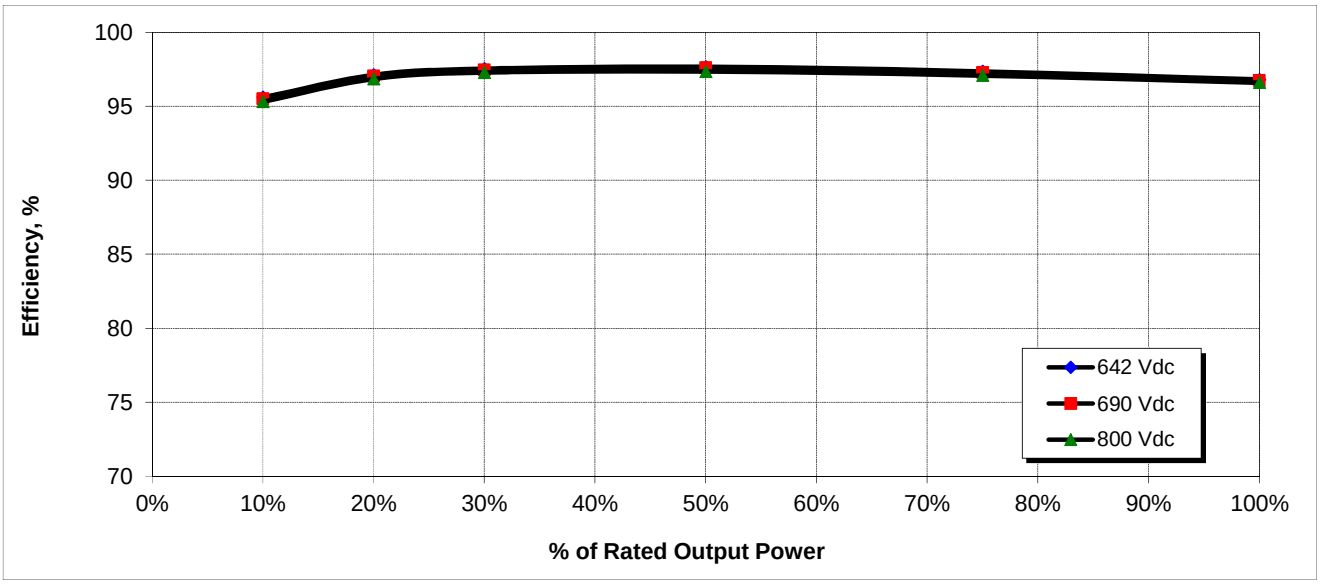
Model #: FS1190CU (440Vac)

Rated Maximum Continuous Output Power: 1330.0 kW Night Tare Loss: -302 W

Vmin: 642 Vdc Vnom: 690 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		133.00	266.00	399.00	665.00	997.50	1330.00	Wtd
Vmin	642	95.6	97.1	97.5	97.7	97.4	96.8	97.3
Vnom	690	95.5	97.0	97.5	97.6	97.3	96.7	97.3
Vmax	800	95.3	96.9	97.3	97.4	97.1	96.6	97.1

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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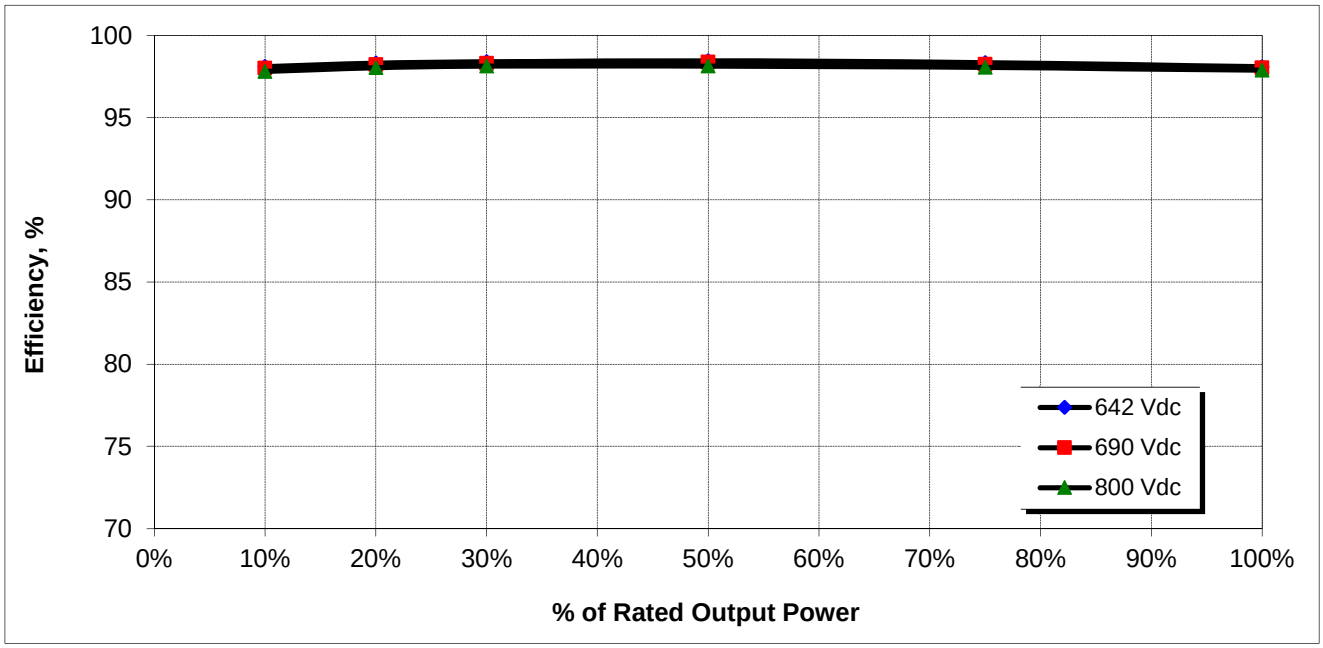
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		133.00	266.00	399.00	665.00	997.50	1330.00	Wtd
Vmin	642	98.1	98.3	98.4	98.5	98.4	98.1	98.4
Vnom	690	98.0	98.2	98.3	98.4	98.3	98.0	98.3
Vmax	800	97.8	98.0	98.1	98.1	98.1	97.9	98.1

Inverter Efficiency only = 98.0%



1330KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		133.00	266.00	399.00	665.00	997.50	1330.00	Wtd
Vmin	642	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	690	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vmax	800	97.45	98.79	99.13	99.20	99.00	98.69	98.97

Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	127596.3	642.6	98.1	127607.7	642.6	98.1	128169.0	642.6	98.1	127902.0	642.5	98.1	127445.7	642.6	98.1
20%	Vmin	264773.7	642.5	98.3	265402.3	642.6	98.3	264201.0	642.6	98.3	264170.0	642.6	98.3	264084.7	642.6	98.3
30%	Vmin	406083.0	642.5	98.4	404522.0	642.4	98.4	403591.0	642.4	98.4	401894.7	642.5	98.4	402987.7	642.5	98.4
50%	Vmin	678030.0	642.3	98.5	675029.3	642.4	98.5	675213.3	642.3	98.5	676146.0	642.3	98.5	677517.0	642.3	98.5
75%	Vmin	1004976.7	642.2	98.4	1006496.7	642.2	98.4	1009210.0	642.1	98.4	1004576.7	642.2	98.3	1004573.3	642.2	98.4
100%	Vmin	1328990.0	642.1	98.1	1335300.0	642.0	98.1	1332226.7	642.1	98.1	1333403.3	642.0	98.1	1334020.0	642.1	98.1
10%	Vnom	127580.3	691.0	98.0	127468.7	691.0	98.0	127756.0	691.0	98.0	127586.0	691.0	98.0	127714.0	691.0	98.0
20%	Vnom	264412.0	691.0	98.2	263565.3	691.0	98.2	264258.7	691.0	98.2	263830.0	691.0	98.2	264870.7	691.0	98.2
30%	Vnom	410834.0	690.9	98.3	408729.7	690.9	98.3	408494.0	690.9	98.3	408952.0	690.9	98.3	409611.3	691.0	98.3
50%	Vnom	681376.7	690.7	98.4	674571.7	690.7	98.4	674392.7	690.7	98.4	676207.0	690.7	98.4	671897.7	690.7	98.4
75%	Vnom	1005300.0	690.7	98.2	1007086.7	690.6	98.3	1008380.0	690.5	98.3	1006326.7	690.6	98.3	1005243.3	690.6	98.3
100%	Vnom	1332536.7	690.5	98.0	1330460.0	690.5	98.0	1329963.3	690.6	98.0	1330683.3	690.6	98.0	1332133.3	690.6	98.0
10%	Vmax	127570.0	800.2	97.8	127682.3	800.2	97.8	127319.7	800.2	97.8	127818.3	800.1	97.8	127438.7	800.2	97.8
20%	Vmax	265300.7	801.2	98.1	263050.7	801.2	98.0	264121.0	801.2	98.0	263376.3	801.2	98.0	263990.0	801.2	98.0
30%	Vmax	408960.3	800.1	98.1	411585.3	800.0	98.1	412195.3	800.1	98.1	410369.7	800.1	98.1	411557.3	800.1	98.2
50%	Vmax	671293.3	800.9	98.1	671654.7	800.9	98.1	673055.3	800.9	98.1	673997.7	800.9	98.1	673078.0	800.9	98.1
75%	Vmax	999785.0	800.8	98.0	1005440.0	800.8	98.0	1004766.7	800.9	98.1	1003673.3	800.9	98.1	1003106.7	800.9	98.1
100%	Vmax	1331040.0	800.8	97.9	1329673.3	800.7	97.9	1329420.0	800.7	97.9	1332270.0	800.8	97.9	1330333.3	800.7	97.9

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	127599.3	642.6	98.1	127437.7	642.6	98.1									
20%	Vmin	264166.7	642.5	98.3	264711.7	642.6	98.3									
30%	Vmin	401905.3	642.5	98.4	402034.0	642.5	98.4									
50%	Vmin	674284.7	642.3	98.5	675345.3	642.3	98.5									
75%	Vmin	1005750.0	642.1	98.4	1006143.3	642.2	98.4									
100%	Vmin	1336296.7	642.0	98.1	1332136.7	642.1	98.1									
10%	Vnom	127549.0	691.0	98.0	127404.0	691.0	98.0									
20%	Vnom	265144.7	691.0	98.2	265341.3	691.0	98.2									
30%	Vnom	408427.0	691.0	98.3	410968.0	690.9	98.3									
50%	Vnom	672882.7	690.7	98.4	673610.7	690.8	98.4									
75%	Vnom	1005916.7	690.6	98.3	1006370.0	690.5	98.3									
100%	Vnom	1332663.3	690.5	98.0	1329666.7	690.5	98.0									
10%	Vmax	127824.3	800.1	97.8	127531.3	800.1	97.8									
20%	Vmax	264394.7	801.2	98.0	263588.7	801.2	98.0									
30%	Vmax	411458.7	800.1	98.1	411145.0	800.1	98.1									
50%	Vmax	669741.0	801.0	98.1	672202.3	800.9	98.1									
75%	Vmax	1003530.0	800.9	98.1	1003035.0	800.9	98.1									
100%	Vmax	1332303.3	800.7	97.9	1331866.7	800.6	97.9									